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The same immunoregulatory molecules contribute to successful pregnancy a transplantation.

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Anti-CD200R ameliorates collagen-induced arthritis in mice.

Clin Immunol. 2002 Sep;104(3):256-64.

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Am J Reprod Immunol. 2002 May;47(5):275-82.

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A CD200FC immunoadhesin prolongs rat islet xenograft survival in mice.

Transplantation. 2002 Jun 27;73(12):1948-53.

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CD200 immunoadhesin suppresses collagen-induced arthritis in mice.

Clin Immunol. 2001 Dec;101(3):328-34.

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Evidence for an immunoregulatory role of OX2 with its counter ligand (OX2) in the regulation of transplant rejection, fetal loss, autoimmunity and tumor growth.

Arch Immunol Ther Exp (Warsz). 2001;49(4):303-9. Review.

PMID: 11726033 [PubMed - indexed for MEDLINE]



















☐ 7: [Gorczyński RM, Chen Z, Hu J, Kai Y, Lei J.](#)

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Evidence of a role for CD200 in regulation of immune rejection of leukaemia tumour cells in C57BL/6 mice.

Clin Exp Immunol. 2001 Nov;126(2):220-9.

PMID: 11703364 [PubMed - indexed for MEDLINE]

-  **8:** [Clark DA, Yu G, Levy GA, Gorczynski RM.](#) Related Articles, L
 Procoagulants in fetus rejection: the role of the OX-2 (CD200) tolerance sig
 Semin Immunol. 2001 Aug;13(4):255-63. Review.
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 Receptor engagement on cells expressing a ligand for the tolerance-inducing
 molecule OX2 induces an immunoregulatory population that inhibits
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 J Immunol. 2000 Nov 1;165(9):4854-60.
 PMID: 11046009 [PubMed - indexed for MEDLINE]
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 Evidence for persistent expression of OX2 as a necessary component of
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 Clin Immunol. 2000 Oct;97(1):69-78.
 PMID: 10998319 [PubMed - indexed for MEDLINE]
-  **11:** [Gorczynski RM, Bransom J, Cattral M, Huang X, Lei J, Xiaorong L, Min WP, Wan Y, Gauldie J.](#) Related Articles, L
 Synergy in induction of increased renal allograft survival after portal vein
 infusion of dendritic cells transduced to express TGFbeta and IL-10, along
 with administration of CHO cells expressing the regulatory molecule OX-2
 Clin Immunol. 2000 Jun;95(3):182-9.
 PMID: 10866124 [PubMed - indexed for MEDLINE]
-  **12:** [Ragheb R, Abrahams S, Beecroft R, Hu J, Ni J, Ramakrishna V, Yu G, Gorczynski RM.](#) Related Articles, L
 Preparation and functional properties of monoclonal antibodies to human,
 mouse and rat OX-2.
 Immunol Lett. 1999 Jun 1;68(2-3):311-5.
 PMID: 10424437 [PubMed - indexed for MEDLINE]
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 An immunoadhesin incorporating the molecule OX-2 is a potent
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 J Immunol. 1999 Aug 1;163(3):1654-60.
 PMID: 10415071 [PubMed - indexed for MEDLINE]
-  **14:** [Gorczynski RM, Cohen Z, Fu XM, Lei J.](#) Related Articles, L
 Anti-rat OX-2 blocks increased small intestinal transplant survival after poi
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 Transplant Proc. 1999 Feb-Mar;31(1-2):577-8. No abstract available.
 PMID: 10083244 [PubMed - indexed for MEDLINE]
-  **15:** [Gorczynski RM, Chen Z, Fu XM, Zeng H.](#) Related Articles, L
 Increased expression of the novel molecule OX-2 is involved in prolongatio
 of murine renal allograft survival.
 Transplantation. 1998 Apr 27;65(8):1106-14.
 PMID: 9583873 [PubMed - indexed for MEDLINE]
-  **16:** [Chen Z, Zeng H, Gorczynski RM.](#) Related Articles, L
 Cloning and characterization of the murine homologue of the rat/human M

OX-2 gene.

Biochim Biophys Acta. 1997 Nov 28;1362(1):6-10.

PMID: 9434094 [PubMed - indexed for MEDLINE]

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Abstract

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Clinical & Experimental Immunology
Volume 126 Issue 2 Page 220 - November 2001
doi:10.1046/j.1365-2249.2001.01689.x

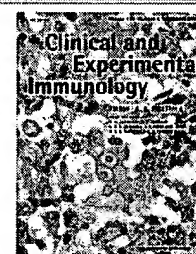
Evidence of a role for CD200 in regulation of immune rejection of leukaemic tumour cells in C57BL/6 mice

R. M. Gorczynski*, Z. Chen*, J. Hu*, Y. Kai* & J. Lei*

Increased expression of the molecule CD200 in mice receiving renal allografts is associated with immunosuppression leading to increased graft survival, and altered cytokine production in lymphocytes harvested from the transplanted animals. Preferential production of IL-4, IL-10 and TGF β occurs on donor-specific restimulation *in vitro*, with decreased production of IL-2, IFN γ and TNF α . These effects are enhanced by simultaneous infusion of CD200 immunoadhesin (CD200Fc) and donor CD200 receptor (CD200^r) bearing macrophages to transplanted mice. C57BL/6 mice do not normally resist growth of EL4 or C1498 leukaemia tumour cells. Following transplantation of cyclophosphamide-treated C57BL/6 with T-depleted C3H bone marrow cells, or for the EL4 tumour, immunization of C57BL/6 mice with tumour cells transfected with a vector encoding the co-stimulatory molecule CD80 (EL4-CD80), mice resist growth of tumour challenge. Immunization of C57BL/6 mice with EL4 cells overexpressing CD86 (EL4-CD86) is ineffective. Protection from tumour growth in either model is suppressed by infusion of CD200Fc, an effect enhanced by co-infusion of CD200^r macrophages. CD200Fc acts on both CD4⁺ and CD8⁺ cells to produce this suppression. These data are consistent with the hypothesis that immunosuppression following CD200-CD200^r interaction can regulate a functionally important tumour growth inhibition response in mice.

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- ☐ R. M. Gorczynski
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